

Amendments to the Claims:

The listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A video processor for providing a single synchronized display video stream having a single display video format to a first display device having a first set of display attributes from a number of input video streams of different video formats, comprising:

a number of ports each of which is configured to receive one of the input video streams at a corresponding input video stream clock rate;

a number of configurable image converter units each coupled to an associated one of the ports for converting the corresponding input video stream to a corresponding converted video stream having the single display video format;

a configurable frame rate conversion unit configured to synchronize each converted data stream to an output frame rate **in accordance with the first set of display attributes, wherein the output frame rate is selectively synchronized to any of the input video data stream clock rates or a ratio of the input video data stream clock rates, and not a display clock rate;** and

a system controller unit in communication with each of the configurable image converter units arranged to configure the image converter units in real time, wherein each of the configured image converter units convert the corresponding input video signal to the corresponding converted video stream having the single display video format.

2. (Previously Presented) A configurable real time video processor as recited in claim 1, wherein when a second display unit having a second set of display attributes replaces the first display unit, then the system controller uses the second set of display attributes received from the second display unit to reconfigure the configurable image converter units and the configurable frame rate conversion unit accordingly.

3. (Previously Presented) A video processor as recited in claim 1, further comprising:

an image compositor unit arranged to combine any number of the converted video streams to form a composited video stream;

an image enhancer unit arranged to enhance the composited video stream to form an enhanced video stream;

a display unit interface arranged process the enhanced video stream to form the display data; and

a memory unit bi-directionally coupled to each of the image converter units and the image compositor arranged to store selected portions of selected ones of the video streams from the image converter units and to provide the selected portions to the image compositor unit as needed.

4-6. (Cancelled)

7. (Previously Presented) A video processor as recited in claim 1, wherein the selected frame rate is a free running frame rate.

8. (Previously Presented) A configurable real time video processor as recited in claim 1, wherein the ports include,

a video receiver port arranged to receive video data at a video clock rate;

a bi-directional network interface arranged to receive network data from network applications on a network and transmit data to the network from the real time video processor at a network data clock rate;

and

a user interface port arranged to receive user input commands at a user interface clock rate.

9. (Previously Presented) A video processor as recited in claim 1, wherein the video processor is an integrated circuit.

10. (Previously Presented) A video processor as recited in claim 1, wherein the display attributes are Extended Display Identification Data (EDID).

11. (Cancelled)

12. (Currently Amended) A method of providing a single synchronized display video stream having a single display video format to a first non-cathode ray tube (CRT) display unit having an associated first set of display attributes from a number of video streams of different video formats by a video processor, comprising:

receiving the input video data streams at a corresponding one of a number of input ports at an associated input video stream clock rate;

receiving the first set of display attributes from the first display unit at a system controller;

configuring a number of configurable image converter units by the system controller using the received first set of display attributes;

configuring a configurable frame rate converter unit by the system controller using the received first set of display attributes;

converting the corresponding video stream to a converted video stream having the single display video format by the configurable image converter units;

synchronizing each converted data stream to an output frame rate by a configurable frame rate converter unit **in accordance with the first set of display attributes, wherein the output frame rate is selectively synchronized to any of the input video data stream clock rates or a ratio of the input video data stream clock rates, and not a display clock rate** and

outputting the synchronized converted video stream to the first display unit.

13. (Previously Presented) A method as recited in claim 12, further comprising:

wherein when a second display unit having a second set of display attributes replaces the first display unit, then the system controller uses the second set of display attributes received from the second display unit to reconfigure the configurable image converter units and configurable frame rate converter unit accordingly.

14. (Previously Presented) A method as recited in claim 12, further comprising:

combining any number of the converted video streams to form a composited video stream;

enhancing the composited video stream to form an enhanced video stream;

processing the enhanced video stream to form the display data; and
storing selected portions of selected ones of the video streams from the image converter units and to provide the selected portions to the image compositor unit as needed

15-17. (Cancelled)

18. (Previously Presented) A method as recited in claim 12 wherein the selected output frame rate is a free running frame rate.

19. (Previously Presented) A method as recited in claim 12, wherein the ports include,
a video receiver port arranged to receive video data at a video clock rate;
a bi-directional network interface arranged to receive network data from network applications on a network and transmit data to the network from the real time video processor at a network data clock rate;
and
a user interface port arranged to receive user input commands at a user interface clock rate.

20. (Previously Presented) A method as recited in claim 12, wherein the video processor is an integrated circuit.

21. (Original) A method as recited in claim 12, wherein the display attributes are Extended Display Identification Data (EDID).

22. (Original) A method as recited in claim 21, further comprising:
interlacing a progressive scan video image when the display unit is an interlaced type display unit; and
bypassing the interlacing when the display unit is a progressive scan type display unit.

23. (Currently Amended) Computer program product for providing a single synchronized display video stream having a single display video format to a first display unit having an

associated first set of display attributes from a number of video streams of different video formats by a video processor, comprising:

- computer code for receiving one of the video streams at one of a number of input ports at an associated input video stream clock rate;

- computer code for receiving the first set of display attributes from the first display unit;

- computer code for configuring a number of configurable image converter units using the received first set of display attributes;

- configuring a configurable frame rate converter unit by the system controller using the received first set of display attributes;

- computer code for converting the corresponding video stream to a converted video stream having the single display video format;

- computer code for synchronizing each converted data stream to an output frame rate **in accordance with the first set of display attributes, wherein the output frame rate is selectively synchronized to any of the input video data stream clock rates or a ratio of the input video data stream clock rates, and not a display clock rate;**

- computer code for outputting the synchronized converted video stream to the first display unit; and

- computer readable medium for storing the computer code.

24. (Cancelled)

25. (Previously Presented) Computer program product as recited in claim 23, further comprising:

- computer code for combining any number of the converted video streams to form a composited video stream;

- computer code for enhancing the composited video stream to form an enhanced video stream;

- computer code for processing the enhanced video stream to form the display data; and

computer code for storing selected portions of selected ones of the video streams from the image converter units and to provide the selected portions to the image compositor unit as needed

26-28. (Cancelled)

29. (Previously Presented) Computer program product as recited in claim 23, wherein the selected output frame rate is a free running frame rate.

30. (Previously Presented) Computer program product as recited in claim 23, wherein the ports include,

a video receiver port arranged to receive video data at a video data clock rate;

a user interface port arranged to receive user input commands at a user interface clock rate, and

a bi-directional network interface arranged to receive network data from network applications on a network and transmit data to the network from the real time video processor at a network data clock rate.

31. (Original) Computer program product as recited in claim 23, wherein the data processor is an integrated circuit.

32. (Original) Computer program product as recited in claim 23, wherein the display attributes are Extended Display Identification Data (EDID).

33. (Original) Computer program product as recited in claim 30, further comprising:

computer code for interlacing a progressive scan video image when the display unit is an interlaced type display unit; and

computer code for bypassing the interlacing when the display unit is a progressive scan type display unit.

34. (Previously Presented) Computer program product as recited in claim 23, wherein when a second display unit having a second set of display attributes replaces the first display unit, then the system controller uses the second set of display attributes received from the second display unit to reconfigure the configurable image converter units and configurable frame rate converter accordingly.